



UNC
ENVIRONMENT,
HEALTH & SAFETY

Job Safety Analysis

Safety Information for The University of North Carolina at Chapel Hill

JOB SAFETY ANALYSIS TOPIC:

Unclogging Pipes for Vacuum System Dental Buildings



Title	Work Task	Hazards	Controls
Preplanning the Work	<p>Contact UNC EHS for monitoring before and during work process</p> <p>Contact Hazardous Materials Manager at 919-962-5509 to obtain the properly labeled container to keep hazardous waste if a container from a previous job is not located in the mechanical room</p> <p>Gather necessary PPE (Latex/Nitrile Gloves, Rubber Boots, chemical safety glasses)</p> <p>Inspect PPE</p>	<p>Improper PPE Inspection</p> <p>Using the wrong or faulty tools</p>	<p>Ensure that PPE inspection is thorough look for holes in gloves, brittle gloves, holes in boots, cracks or abrasions on safety eyewear that could compromise vision</p> <p>Ensure tools are in good working condition and right for the job</p>

	<p>Gather Tools (Auger, blow ball valve)</p> <p>Inspect Tools</p> <p>Gather information on the clog location</p>		
<p>Clearing the Line</p>	<p>Don rubber boots, nitrile/latex gloves, respirator and chemical safety glasses</p> <p>Lay down absorbent pads in the area to mitigate spillover and protect stormwater drains</p> <p>Break through the clog with the blow ball valve and water or auger</p> <p>Run water through pipes to ensure clog is pushed through the system</p> <p>If the room begins to flood and the clog will not release contact the UNC Hazmat team</p>	<p>Possible Exposure Hazards-</p> <p>Mercury Inhalation or Absorption</p> <p>Slips, Trips, and Falls</p>	<p>Continue to wear PPE properly throughout process</p> <p>Place absorbent pads under work area to collect spills and mitigate water pooling around the site while clearing the system. Also helps mitigate potential environmental hazards from mercury entering the stormwater system</p> <p>Mercury levels will be monitored continuously by UNC EHS</p>



<p>Clean Up</p>	<p>Take necessary steps to clean tools</p> <p>Have EHS monitor the auger; if readings are above 3000 on the lumex EHS will decon it with Mercon X to below 1000</p> <p>Bag any contaminated material and put in premarked hazardous waste container (including PPE)</p>	<p>Possible Exposure Hazards – Mercury Inhalation or Absorption</p> <p>Improper storage or disposal of hazardous waste</p>	<p>Keep PPE on during the cleaning, storage, and disposal process</p> <p>The container should be obtained before the job or continue to be used from a previous job at the same location. Once the preapproved container is full then the facilities employee will have to fill out a hazardous waste pickup form found here: https://ehs.cloudapps.unc.edu/HazMat_Pickup/ Once storage of material starts the container must be picked up within one year, even if the container is not at capacity</p>

Training	Employees must have hands on training in the proper use of this piece of equipment.	Supervisor is to fill out the turn in the form to UNC-CH 'Supervisor Led Training Form' and Environment, Health, and Safety for documentation of proper training.
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Referenced Material	UNC IH Report for the UNC School of Dentistry dated 8/03/2017	
Contact Info	<p>For more information about this JSA and other JSAs, contact: <i>UNC-CH Department of Environment, Health and Safety</i> 1120 Estes Drive Extension, Chapel Hill NC 27599 CB# 1650 (919) 962-5507 ☎ https://ehs.unc.edu/</p>	 